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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Inventors:

Hisao KOGA, et al.

Art Unit: 2631

Application No.:

10/669,592

Filed:

September 23, 2003

For:

COMMUNICATION APPARATUS

## INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner of Patents Washington, DC 20231

Dear Sir:

Pursuant to Rules 56 and 99, Applicants hereby call the attention of the Patent Office to the art listed on the attached Form PTO 1449. All of these references were cited in an International Search Report dated March 9, 2004 (copy attached).

Applicants present this art so that the Patent Office may, in the first instance, determine any relevancy thereof to the presently claimed invention, see <a href="Beckman Instruments">Beckman Instruments</a>, Inc. v. <a href="Chemtronics">Chemtronics</a>, Inc., 439 F.2d 1369, 1380, 165 USPQ 355, 364 (5th Cir. 1970). Also see Patent Office Rules 104 and 106. Applicants respectfully request that this art be expressly considered during the prosecution of this application and made of record herein and appear among the "References Cited" on any patent to issue herefrom.

Respectfully submitted,

Date: March 14, 2005

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ATTORNEY DOCKET NO. L8612.04115

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ATTY. DOCKET NO. FORM PTO-1449 (Rev. 4/92) U.S. Department of Commerce Patent and Trademark Office SERIAL NO. L8612.04115 10/669,592 INFORMATION DISCLOSORE STATEMENT BY APPLICANT **APPLICANT** (Use several sheets if necessary) Hisao KOGA, et al. MAR 1 4 2005 TRADEN! FILING DATE **GROUP** September 23, 2003 2631 **PATENT DOCUMENTS** FILING DATE APPROPRIATE FXAMINER SUBCLASS DOCUMENT NUMBER DATE NAME CLASS FOREIGN PATENT DOCUMENTS DOCUMENT NUMBER DATE COUNTRY CLASS SUBCLASS TRANSLATION YES NO 0 0 9 5 4 05/2001 **FR** Я 0 3 0 6 3 3 8 0 07/2003 WO OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) International Search Report dated March 9, 2004. M.C. Sun, et al., "Power-Line Communications Using DWMT Modulation," IEEE International Symposium on Circuits and Systems, vol. 4, XP-002271367, pages 493-496, May 26-29, 2002. E. Ozturk, et al., "Waveform Encoding of Binary Signals Using a Wavelet and its Hilbert Transform," Proceedings of 2000 International Conference on Acoustics, Speech and Signal Processing, vol. 5, XP010506549, pages 2641-2644, IEEE, 5 June 2000. J. N. Livinston, et al., "Bandwidth Efficient PAM Signaling Using Wavelets," IEEE Transactions on Communications, vol. 44, no. 12, XP 000640579, pages 1629-1631, IEEE, 1 Dec. 1996. G. Cariolaro et al., "An OFDM System with a Half Complexity," Proceedings of the Global Telecommunications Conference, vol. 1, XP000488550, pages 237-242, Nov. 28, 1994 - Dec. 2, 1994. H. Bolcskei, et al., "Design of Pulse Shaping OFDM/OQAM Systems for High Data-Rate Transmission Over Wireless Channels," International Conference on Communications, vol. 1, pages 559-564, XP002139687, IEEE, June 6-10, 1999. **EXAMINER** DATE CONSIDERED **EXAMINER:** Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.